## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 31 December 2003 (31.12.2003)

PCT

## (10) International Publication Number WO 2004/000358 A1

(51) International Patent Classification7: A61K 47/00

(21) International Application Number:

PCT/IL2003/000513

(22) International Filing Date:

16 June 2003 (16.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

150334

20 June 2002 (20.06.2002)

(71) Applicant and

- (72) Inventor: SINTOV, Amnon [IL/IL]; 27 Oren Street, Omer 84965 (IL):
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): GORODISCHER, Raphael [IL/IL]; Harduf Street 21, 84965 Omer (IL).
- (74) Agent: WOLFF, Bregman and Goller; P.O. Box 1352, Jerusalem 91013 (IL).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TRANSDERMAL DRUG DELIVERY SYSTEM

(57) Abstruct: The invention provides a transdermal delivery system for local anesthetic, immunosuppresive and neurologically effective drugs, as well as for polypeptides and protein-based drugs, comprising a local anesthetic, immunosuppresive or neurologically effective drug, as well as a polypeptide or protein-based drug in combination with water-miscible tetraglycol and water for dissolving the drug in hydrogel form.